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**COMBINED DECLARATION AND POWER OF ATTORNEY**

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,  
CONTINUATION OR CIP)

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As a below named inventor, I hereby declare that:

**TYPE OF DECLARATION**

This declaration is of the following type: (check one applicable item below)

- ☒ original  
☐ design  
☐ supplemental

NOTE: If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application, do not check next item; check appropriate one of last three items.

☐ national stage of PCT (under 35 U.S.C. §371)

NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR CIP.

- ☐ divisional  
☐ continuation  
☐ continuation-in-part (CIP)

**INVENTORSHIP IDENTIFICATION**

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**TITLE OF INVENTION**

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MACHINING SIMULATION METHOD AND APPARATUS

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**SPECIFICATION IDENTIFICATION**

the specification of which: (complete (a), (b) or (c))

(a) ☐ is attached hereto.

(b) ☒ was filed on January 24, 2000 as ☒ Serial No. 09/490,222 or ☐ Express Mail No., as  
Serial No. not yet known and was amended on \_\_\_\_\_ (if applicable).

NOTE: Amendments filed after the original papers are deposited with the PTO which contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 CFR 1.67.

(c) ☐ was described and claimed in PCT International Application No. \_\_\_\_\_ filed  
on \_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_ (if any).

## ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information

X which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56

*(also check the following items, if desired)*

— and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable examiner would consider it important in deciding whether to allow the application to issue as a patent, and

— In compliance with this duty there is attached an information disclosure statement in accordance with 37 CFR 1.98.

## PRIORITY CLAIM (35 U.S.C. § 119)

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

*(complete (d) or (e))*

(d) — no such applications have been filed.

(e) X such applications have been filed as follows.

NOTE: Where item (c) is entered above and the International Application which designated the U.S. itself claimed priority check item (e), enter the details below and make the priority claim.

### A. PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119	
			— YES	NO —
United Kingdom	99 01887.1	29 January 1999	<u>X</u> YES	NO —
			— YES	NO —
			— YES	NO —
			— YES	NO —

**ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS  
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

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NOTE: If the application filed more than 12 months from the filing date of this application is a PCT filing forming the basis for this application entering the United States as (1) the national stage, or (2) a continuation, divisional, or continuation-in-part, then also complete ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CIP APPLICATION for benefit of the prior U.S. or PCT application(s) under 35 U.S.C. § 120.

**POWER OF ATTORNEY**

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (*List name and registration number*)

Maurice E. Gauthier - 20,798  
Richard L. Stevens - 24,445  
Matthew E. Connors - 33,298

William E. Hilton - 35,192  
Patrick J. O'Shea - 35,305  
Arlene J. Powers - 35,985  
Steven M. Mills - 36,610  
Anthony P. Onello, Jr. - 38,572  
Richard L. Stevens, Jr. - 44,357

*(check the following item, if applicable)*

— Attached as part of this declaration and power of attorney is the authorization of the above-named attorney(s) to accept and follow instructions from my representative(s).

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**SEND CORRESPONDENCE TO**

Matthew E. Connors, Esq.  
Samuels, Gauthier & Stevens LLP  
225 Franklin Street  
Suite 3300  
Boston, Massachusetts 02110

**DIRECT TELEPHONE CALLS TO:**  
*(Name and telephone number)*

Matthew E. Connors  
(617) 426-9180  
Extension 112

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**DECLARATION**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**SIGNATURE(S)**

NOTE: Carefully indicate the family (or last) name as it should appear on the filing receipt and all other documents.

**Full name of sole or first inventor**

WILLIAM  
(GIVEN NAME)

RICHARD VICTOR  
(MIDDLE INITIAL OR NAME)

EDWARDS  
FAMILY (OR LAST NAME)

Inventor's signature

W Edwards

Date 4/5/00 Country of Citizenship United Kingdom

Residence 78 Clarkehouse Road, Sheffield, S10 2LJ, United Kingdom

Post Office Address (same as above)

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**Full name of second joint inventor, if any**

FENQUAN FENGLIANG  
(GIVEN NAME)

(MIDDLE INITIAL OR NAME)

LIN  
FAMILY (OR LAST NAME)

Inventor's signature

Fengliang Lin

Date 4/5/2000 Country of Citizenship China

Residence 78 Clarkehouse Road, Sheffield, S10 2LJ, United Kingdom

Post Office Address (same as above)

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**Full name of third joint inventor, if any**

(GIVEN NAME)

(MIDDLE INITIAL OR NAME)

FAMILY (OR LAST NAME)

Inventor's signature

Date \_\_\_\_\_ Country of Citizenship \_\_\_\_\_

Residence \_\_\_\_\_

Post Office Address \_\_\_\_\_

**CHECK PROPER BOX(ES) FOR ANY OF THE FOLLOWING ADDED PAGE(S) WHICH  
FORM A PART OF THIS DECLARATION**

— Signature for third and subsequent joint inventors. *Number of pages added* \_\_\_\_\_.

\* \* \*

— Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. *Number of pages added* \_\_\_\_\_.

\* \* \*

— Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. *Number of pages added* \_\_\_\_\_.

\* \* \*

— Added page for signature by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time (37 CFR 1.47).

\* \* \*

— Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.

— Number of pages added \_\_\_\_\_

\* \* \*

— Authorization of attorney(s) to accept and follow instructions from representative.

\* \* \*

*(If no further pages form a part of this Declaration, then end this Declaration with this page and check the following item.)*

X This declaration ends with this page.

RECORDATION FORM COVER SHEET  
PATENTS ONLY

HONORABLE COMMISSIONER OF  
PATENTS AND TRADEMARKS  
WASHINGTON, D.C. 20231  
SIR:

PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENT(S) OR COPY(IES) THEREOF.

## 1. NAME OF CONVEYING PARTY(IES)

LightWork Design Limited  
78 Clarkehouse Road  
Sheffield, S10 2LJ  
UNITED KINGDOM

Additional name(s) of conveying party(ies) attached? No

## 2. NAME(S) AND ADDRESS(ES) OF RECEIVING PARTY(IES)

MachineWorks Limited  
78 Clarkehouse Road  
Sheffield, S10 2LJ  
UNITED KINGDOM

Additional name(s) of receiving party(ies) attached? No

## 3. NATURE OF CONVEYANCE

- ☒ Assignment  
☐ Security Agreement  
☐ Merger  
☐ Change of Name  
☐ Other

Execution Date:

07/28/2003

## 4. APPLICATION NUMBER(S) OR PATENT NUMBER(S)

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s): 09/490,222

B. Patent No(s):

C. Issue Batch No.: \_\_\_\_\_

D. Issue Date:

Additional numbers attached? No.

5. NAME AND ADDRESS OF PARTY TO WHOM  
CORRESPONDENCE CONCERNING DOCUMENT  
SHOULD BE DIRECTED:

Matthew E. Connors, Esq.  
Samuels, Gauthier & Stevens LLP  
225 Franklin Street, Suite 3300  
Boston, Massachusetts 02110  
(617) 426-9180, Extension 112

6. TOTAL NUMBER OF APPLICATIONS  
AND PATENTS INVOLVED: 1

## 7. TOTAL FEE DUE: \$40.00 (Enclosed)


If any additional fee(s) are due, the Commissioner is hereby authorized to charge the Deposit Order Account noted in item 8.

## 8. DEPOSIT ACCOUNT NUMBER: 19-0079

## 9. STATEMENT AND SIGNATURE

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

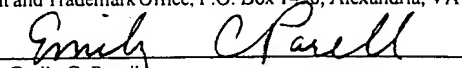
Matthew E. Connors  
Name of Person Signing

  
Signature

9/10/03  
Date

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the Mail Stop Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: 09/10/2003

  
Emily C. Porell

# ASSIGNMENT

Know all men by these presents that:

WHEREAS, LightWork Design Limited  
78 Clarkehouse Road  
Sheffield, S10 2LJ  
United Kingdom

now owns the rights to the invention for

## **MACHINING SIMULATION METHOD AND APPARATUS**

described in the application filed with the United States Patent and Trademark Office on January 24, 2000 as Serial No. 09/490,222, and

WHEREAS MachineWorks Limited a corporation duly organized and existing under the laws of the United Kingdom and having a place of business at 78 Clarkehouse Road, Sheffield, S10 2LJ, United Kingdom, for the benefit of itself, its successors and assigns, all inclusively hereinafter referred to as the Assignee, is desirous of acquiring the entire right, title and interest in and to the said invention, the said application, all inventions disclosed in said application and any and all Letters Patent of the United States;

NOW, THEREFORE, for good and valuable consideration provided by said Assignee, the receipt whereof is hereby acknowledged, we do hereby sell, assign and transfer to the said Assignee the entire right, title and interest in and to the said invention, inventions and application, including all priority rights arising therefrom, all inventions disclosed in said application, and any and all Letters Patent of the United States, together with the right to apply for such Letters Patent, which may be granted for the said invention, inventions or any of them,

TO HAVE, HOLD AND ENJOY the said invention, the said application, and the said Letters Patent, to said

### **MachineWorks Limited**

its successors and assigns, to its and their own use and behoof to the full end of the term or terms for which the said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

AND we hereby authorize and request the Commissioner of Patents of the United States and the appropriate officers of all foreign patent offices to issue any and all Letters Patent which may be granted on the said application or applications above referred to, or for the said invention, or any of them, to the said Assignee in accordance with the terms of this instrument.

AND we hereby agree to execute and sign without further consideration any other legal document and any other assignments and any divisional, continuing, renewal, reissue or other application in and for all patents that may be appropriate and may be deemed necessary by the Assignee fully to secure to said Assignee its interests as aforesaid in and to the said invention or any part thereof and in and to the said patents or any of them.

AND we further covenant and agree that we will at any time upon request communicate to the said Assignee, its successors, assigns or other legal representatives, any facts known to us relating to the said invention and any patent that may be granted thereon, and will testify as to the same in any interference or litigation when requested to do so.

AND we hereby covenant for ourselves and our legal representatives that we have not hitherto assigned or granted any license to make, use or sell said invention, and that we will not henceforth purport to assign, license or execute any instrument to that effect in conflict with this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on the dates below.

July 28, 2003

Date



Signature

FINANCE DIRECTOR

Title

**LightWork Design Limited**